

Claims

1. A device for storing a dressing (01, 36, 37) of a length (L) to be supplied to a cylinder (06, 31, 33), wherein in a first operational state a holding element (61, 62, 64) maintains the dressing (01, 36, 37) in a first storage position, wherein in the course of the change of the holding element (61, 62, 64) into a second operational state the holding element (61, 62, 64) and the dressing (01, 36, 37) are released from each other, characterized in that the dressing (01, 36, 37) after being released from the holding element (61, 62, 64) changes along its length (L) into a second storage position, which is vertically spaced apart from the first storage position.

2. The device in accordance with claim 1, characterized in that two holding elements (61, 62, 64) are provided, which hold the dressing (01, 36, 37) along one of its sides.

3. The device in accordance with claim 2, characterized in that the sides of the dressing (01, 36, 37) which are being held are located opposite each other.

4. The device in accordance with claim 3, characterized in that in the course of the change of at least one of the holding elements (61, 62, 64) into its second operational state a distance (a58) between the holding elements (61, 62, 64) holding the dressing (01, 36, 37) at its sides is increased, at least briefly, above the value which the dressing (01, 36, 37) arranged between

the holding elements (61, 62, 64) has in its dimensions (L, B) which are aligned with the distance (a58).

5. A device for storing a dressing (01, 36, 37) to be supplied to a cylinder (06, 31, 33), wherein in a first operational state a holding element (61, 62, 64) maintains the dressing (01, 36, 37) in a first storage position, wherein in the course of the change of the holding element (61, 62, 64) into a second operational state the holding element (61, 62, 64) and the dressing (01, 36, 37) are released from each other, characterized in that two holding elements (61, 62, 64), which hold the dressing (01, 31, 33) at two of its oppositely located sides are provided, wherein in the course of the change of at least one holding element (61, 62, 64) into its second operational state a distance (a58) between the holding elements (61, 62, 64) is increased, at least briefly, above the value which the dressing (01, 36, 37) arranged between the holding elements (61, 62, 64) has in its dimensions (L, B) which are aligned with the distance (a58).

6. The device in accordance with claim 5, characterized in that in the course of the increase of the distance (a58) between the holding elements (61, 62, 64) the dressing (01, 36, 37) reaches a second storage position.

7. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) is embodied as a guide rail (64).

8. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) in a narrow area of its side.

9. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) in the first storage position by vertically supporting it.

10. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) in the first storage position by means of an electric or magnetic force.

11. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) is changed from a first operational state into its second operational state by remote control.

12. The device in accordance with claim 1 or 6, characterized in that the second storage position is located vertically without offset underneath the first storage position.

13. The device in accordance with claim 1 or 6, characterized in that at least the second storage position of the dressing (01, 36, 37) has an inclination of less than 15° in respect to the horizontal line.

14. The device in accordance with claim 1 or 6, characterized in that both storage positions have an inclination of less than 15° in respect to the horizontal line.

15. The device in accordance with claim 1 or 6, characterized in that the second storage position of the dressing (01, 36, 37) is horizontally oriented.

16. The device in accordance with claim 1 or 5, characterized in that the first storage position of the dressing (01, 36, 37) is horizontally oriented.

17. The device in accordance with claim 1 or 6, characterized in that the second storage position of the dressing (01, 36, 37) is embodied as a support (54), from which the dressing (01, 36, 37) can be transported to the cylinder.

18. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) along its length (L).

19. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) along its width (B).

20. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) has a U-shaped bracket, which extends around the side of the printing forme (01, 36, 37).

21. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) can be moved along an actuating path (s68).

22. The device in accordance with claim 9 and 21, characterized in that the movement of the holding element (61, 62, 64) along the actuating path (s68) removes the vertical support from the dressing (01, 36, 37).

23. The device in accordance with claim 21, characterized in that the actuating path (s68) lies in the range between 2 mm and 10 mm.

24. The device in accordance with claim 23, characterized in that the actuating path (s68) lies at 4 mm.

25. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) can be pivoted around a pivot axis.

26. The device in accordance with claim 25, characterized in that the pivot axis of the holding element (61, 62, 64) extends parallel in respect to the side of the dressing (01, 36, 37) which is held by the holding element (61, 62, 64).

27. The device in accordance with claim 1 or 5, characterized in that the holding element (61, 62, 64) is attached to at least one pivot arm (68).

28. The device in accordance with claim 27, characterized in that the pivot arm (68) can be pivoted in a plane set by the support surface (02) of the dressing (01, 36, 37).

29. The device in accordance with claim 27, characterized in that the pivot arm (68) has two oppositely located ends, wherein one end of the pivot arm (68) is connected with the holding element (61, 62, 64) and the other end of the pivot arm (68) is fixed in place at the device.

30. The device in accordance with claim 27, characterized in that the pivot arm (68) is embodied as a spring element (68), which acts laterally on the holding element (61, 62, 64).

31. The device in accordance with claim 27, characterized in that the pivot arm (68) is embodied as a leaf spring (68).

32. The device in accordance with claim 21, characterized in that a drive mechanism (69) moves the holding element 61, 62, 64).

33. The device in accordance with claim 32, characterized in that the drive mechanism (69) is a controllable magnet (69).

34. The device in accordance with claim 1 or 5, characterized in that at least one stop (67) is provided, which extends perpendicularly in respect to the support surface (02) of the dressing (01, 36, 37).

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AMENDED CLAIMS

[received by the International Office on August 27, 2004 (08/27/04);
original claims 1 to 40 replaced by new claims 1 to 40,
original claims 3 and 4 unchanged (6 pages)]

Claims

1. A device for storing a dressing (01, 36, 37) of a length (L) to be supplied to a cylinder (06, 31, 33), wherein in a first operational state a holding element (61, 62, 64) maintains the dressing (01, 36, 37) in a first storage position, wherein in the course of the change of the holding element (61, 62, 64) into a second operational state the holding element (61, 62, 64) and the dressing (01, 36, 37) are released from each other, characterized in that two holding elements (61, 62, 64), which hold the dressing (01, 31, 33) are provided, wherein in the course of the change of at least one holding element (61, 62, 64) into its second operational state the dressing (01, 36, 37) is released from the first storage position.

2. The device in accordance with claim 1, characterized in that the holding elements (61, 62, 64) hold the dressing (01, 36, 37) along two of its sides.

3. The device in accordance with claim 2, characterized in that the sides of the dressing (01, 36, 37) which are being held

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are located opposite each other.

4. The device in accordance with claim 3, characterized in that in the course of the change of at least one of the holding elements (61, 62, 64) into its second operational state a distance (a58) between the holding elements (61, 62, 64) holding the dressing (01, 36, 37) at its sides is increased, at least briefly, above the value which the dressing (01, 36, 37) arranged between the holding elements (61, 62, 64) has in its dimensions (L, B) which are aligned with the distance (a58).

5. The device in accordance with claim 1, characterized in that for the same dressing (01, 31, 33) a second storage position is provided, which along its length (L) is vertically spaced apart from the first storage position.

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6. The device in accordance with claim 4, characterized in that in the course of a change of at least one holding element (61, 62, 64) into its second operational state the dressing (01, 36, 37) reaches the second storage position.

7. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) is embodied as a guide rail (64).

8. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) in a narrow area of its side.

9. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) in the first storage position by vertically supporting it.

10. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) in the first storage position by means of an electric or magnetic force.

11. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) is changed from a first operational state into its second operational state by remote control.

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12. The device in accordance with claim 5, characterized in that the second storage position is located vertically without offset underneath the first storage position.

13. The device in accordance with claim 5, characterized in that at least the second storage position of the dressing (01, 36, 37) has an inclination of less than 15° in respect to the horizontal line.

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14. The device in accordance with claim 5, characterized in that both storage positions have an inclination of less than 15° in respect to the horizontal line.

15. The device in accordance with claim 5, characterized in that the second storage position of the dressing (01, 36, 37) is horizontally oriented.

16. The device in accordance with claim 1, characterized in that the first storage position of the dressing (01, 36, 37) is horizontally oriented.

17. The device in accordance with claim 5, characterized in that the second storage position of the dressing (01, 36, 37) is embodied as a support (54), from which the dressing (01, 36, 37) can be transported to the cylinder.

18. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) along its length (L).

19. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) holds the dressing (01, 36, 37) along its width (B).

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20. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) has a U-shaped bracket, which extends around the side of the printing forme (01, 36, 37).

21. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) can be moved along an actuating path (s68).

22. The device in accordance with claim 9 and 21, characterized in that the movement of the holding element (61, 62, 64) along the actuating path (s68) removes the vertical support from the dressing (01, 36, 37).

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23. The device in accordance with claim 21, characterized in that the actuating path (s68) lies in the range between 2 mm and 10 mm.

24. The device in accordance with claim 23, characterized in that the actuating path (s68) lies at 4 mm.

25. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) can be pivoted around a pivot axis.

26. The device in accordance with claim 25, characterized in that the pivot axis of the holding element (61, 62, 64) extends parallel in respect to the side of the dressing (01, 36, 37) which is held by the holding element (61, 62, 64).

27. The device in accordance with claim 1, characterized in that the holding element (61, 62, 64) is attached to at least one pivot arm (68).

28. The device in accordance with claim 27, characterized in that the pivot arm (68) can be pivoted in a plane set by the support surface (02) of the dressing (01, 36, 37).

29. The device in accordance with claim 27, characterized in that the pivot arm (68) has two oppositely located ends,

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wherein one end of the pivot arm (68) is connected with the holding element (61, 62, 64) and the other end of the pivot arm (68) is fixed in place at the device.

30. The device in accordance with claim 27, characterized in that the pivot arm (68) is embodied as a spring element (68), which acts laterally on the holding element (61, 62, 64).

31. The device in accordance with claim 27, characterized in that the pivot arm (68) is embodied as a leaf spring (68).

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32. The device in accordance with claim 21, characterized in that a drive mechanism (69) moves the holding element 61, 62, 64).

33. The device in accordance with claim 32, characterized in that the drive mechanism (69) is a controllable magnet (69).

34. The device in accordance with claim 1, characterized in that at least one stop (67) is provided, which extends perpendicularly in respect to the support surface (02) of the dressing (01, 36, 37).

35. The device in accordance with claim 34, characterized in that the stop (67) is arranged to be rigid.

36. The device in accordance with claim 34, characterized in that the dressing (01, 36, 37) rests against the stop (67) with its side which is held by the holding element (61, 62, 64) while the holding element (61, 62, 64) and the dressing (01, 36, 37) are released from each other.

37. The device in accordance with claim 34, characterized in that the dressing (01, 36, 37) released from the holding element (61, 62, 64) reaches its second storage position by sliding along the stop (67) with its side.

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38. The device in accordance with claim 37, characterized in that the sliding is oriented vertically downward.

39. The device in accordance with claim 1, characterized in that in the course of its release from the holding element (61, 62, 64) the dressing (01, 36, 37) maintains its position in a plane set by the dressing (01, 36, 37).

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40. The device in accordance with claim 5, characterized in that following the release from the holding element (61, 62, 64), the dressing (01, 36, 37) reaches its second storage position by means of the force of gravity (FG) acting on the dressing (01, 36, 37).

35. The device in accordance with claim 34, characterized in that the stop (67) is arranged to be rigid.

36. The device in accordance with claim 34, characterized in that the dressing (01, 36, 37) rests against the stop (67) with its side which is held by the holding element (61, 62, 64) while the holding element (61, 62, 64) and the dressing (01, 36, 37) are released from each other.

37. The device in accordance with claim 34, characterized in that the dressing (01, 36, 37) released from the holding element (61, 62, 64) reaches its second storage position by sliding along the stop (67) with its side.

38. The device in accordance with claim 37, characterized in that the sliding is oriented vertically downward.

39. The device in accordance with claim 1 or 5, characterized in that in the course of its release from the holding element (61, 62, 64) the dressing (01, 36, 37) maintains its position in a plane set by the dressing (01, 36, 37).

40. The device in accordance with claim 1 or 6, characterized in that following the release from the holding element (61, 62, 64), the dressing (01, 36, 37) reaches its second storage position by means of the force of gravity (FG) acting on the dressing (01, 36, 37).